## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

## LISTING OF CLAIMS:

 (Previously Presented) A method of controlling radio resources assigned to a communication between a mobile terminal and a cellular network infrastructure, the infrastructure comprising at least one radio network controller and fixed transceivers serving respective cells, the method comprising the steps of:

measuring parameters of respective propagation channels between the mobile terminal and a number of fixed transceivers;

transmitting to the radio network controller report messages indicating at least some of the measured parameters; and

processing the report messages on the radio network controller,

wherein the measured parameters indicated in the report messages for at least one fixed transceiver include data representing a time variability of a power level received on the channel between the mobile terminal and said fixed transceiver.

 (Previously Presented) The method as claimed in claim 1, wherein the variability data of a power level include an estimated variance of a time distribution of said power level.

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3. (Original) The method as claimed in claim 2, wherein said variability data further

comprise at least one estimation of a moment of order greater than 2 of said time distribution of

the power level.

4. (Previously Presented) The method as claimed in claim 1, wherein the measured

parameters indicated in the report messages for at least one fixed transceiver further comprise an

average value of a power level received on the channel between the mobile terminal and said

fixed transceiver.

5. (Previously Presented) The method as claimed in claim 1, wherein the measured

parameters indicated in the report messages for at least one fixed transceiver further comprise a

signal loss value on the channel between the mobile terminal and said fixed transceiver.

(Previously Presented) The method as claimed in claim 1, wherein the variability

data of the power level are measured over a first period and averaged over a second period,

longer than the first period, to be included in a report message transmitted to the radio network

controller.

7. (Previously Presented) The method as claimed in claim 1, wherein at least some of

the propagation channel parameter measurements are downlink measurements performed by the

mobile terminal on pilot signals respectively sent by the fixed transceivers and formed with

defined spreading codes.

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8. (Previously Presented) The method as claimed in claim 7, wherein said downlink

measurements are transmitted by the mobile terminal to the radio network controller in report

messages of a radio resource control protocol, relayed transparently by the fixed transceivers.

9. (Previously Presented) The method as claimed in claim 1, wherein at least some of

the propagation channel parameter measurements are uplink measurements performed by the

fixed transceivers on a pilot signal included in signals sent by the mobile terminal on a dedicated

channel.

10. (Previously Presented) The method as claimed in claim 9, wherein said uplink

measurements are transmitted by the fixed transceivers to the radio network controller in report

messages of an application protocol for controlling the fixed transceivers.

11. (Previously Presented) The method as claimed in any claim 1, wherein the

processing of the report messages indicating the data representing the time variability to the radio

network controller includes determining an active set of fixed transceivers with respect to the

mobile terminal and activating a radio link between the mobile terminal and each fixed

transceiver of the active set.

12. (Original) The method as claimed in claim 11, wherein the active set is defined

according to parameters including the variability data indicated in report messages for a number

of fixed transceivers and signal loss values on the respective channels between the mobile terminal and said fixed transceivers.

- 13. (Previously Presented) The method as claimed in claim 1, wherein the radio network controller determines an active set of fixed transceivers with respect to the mobile terminal and activates a respective radio link between the mobile terminal and each fixed transceiver of the active set, and wherein the processing of the report messages indicating the data representing the time variability to the radio network controller includes determining a transmit power setting control for each fixed transceiver of the active set with respect to the mobile terminal.
- 14. (Original) The method as claimed in claim 13, wherein the determination of the power setting control is controlled according to parameters including the variability data indicated in report messages for a number of fixed transceivers and signal loss values on the respective channels between the mobile terminal and said fixed transceivers.
- 16. (Previously Presented) The method as claimed in claim 1, wherein the processing of the report messages indicating the data representing the time variability to the radio network controller includes determining an initial set point for a closed loop locking the transmit power of the mobile terminal, executed between a fixed transceiver and the mobile terminal, said initial set point being transmitted by the radio network controller to said fixed transceiver.

16. (Previously Presented) The method as claimed in claim 1, wherein the processing of the report messages indicating the data representing the time variability to the radio network controller includes determining a mode of transmitting to the radio network controller report

messages indicating at least some of the measured parameters.

- 17. (Original) The method as claimed in claim 16, wherein the determination of the report message transmission mode includes selecting between a periodic transmission of the report messages and an event-triggered transmission of the report messages.
- 18. (Original) The method as claimed in claim 17, wherein precedence is given to the periodic transmission of the report messages over the event-triggered report message transmission when the time variability of the power level received on the channel between the mobile terminal and a fixed transceiver with which the mobile terminal has an active radio link is greater than a threshold.
- 19. (Original) The method as claimed in claim 17, wherein precedence is given to the periodic transmission of the report messages over the event-triggered report message transmission when the time variability of the power level received on the channel between the mobile terminal and a fixed transceiver with which the mobile terminal has an active radio link is increasing.

20. (Previously Presented) The method as claimed in claim 16, wherein the determination of the report message transmission mode includes, in the, case of periodic report message transmission, selecting the transmission interval of said messages.

- 21. (Original) The method as claimed in claim 20, wherein the selected transmission interval is a decreasing function of the time variability of the power level received on the channel between the mobile terminal and a fixed transceiver with which the mobile terminal has an active radio link
- 22. (Previously Presented) The method as claimed in claim 16, wherein the determination of the report message transmission mode includes, in the case of an event-triggered report message transmission, selecting the event for which the detection gives rise to the transmission of one of said messages.
- 23. (Original) The method as claimed in claim 22, wherein the selected event has a probability of occurrence which is a decreasing function of the time variability of the power level received on the channel between the mobile terminal and a fixed transceiver with which the mobile terminal has an active radio link.
- (Previously Presented) The method as claimed in claim 16, wherein the
  determination of the report message transmission mode also takes into account a service which

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involves a communication between the mobile terminal and at least one of said fixed transceivers.

- 25. (Previously Presented) A radio network controller for a spread spectrum cellular network infrastructure, comprising means of communication with fixed transceivers serving respective cells and with at least one mobile terminal, and means of controlling radio resources assigned to a communication between the mobile terminal and the cellular network infrastructure, wherein the radio resource control means comprise means for requesting, through the communication means, parameter measurement report messages for respective propagation channels between the mobile terminal and a number of fixed transceivers, and means of processing the report messages, and wherein the parameters indicated in the report messages for at least one fixed transceiver include data representing a time variability of a power level received on the channel between the mobile terminal and said fixed transceiver, taken into account by processing means.
- 26. (Previously Presented) The radio network controller as claimed in claim 25, wherein the variability data of a power level include an estimated variance of a time distribution of said power level.
- 27. (Previously Presented) The radio network controller as claimed in claim 25, including means for determining, from a report message received for a fixed transceiver, a signal loss value on the channel between the mobile terminal and said fixed transceiver.

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28. (Previously Presented) The radio network controller as claimed in claim 25, wherein at least some of the propagation channel parameter measurements are downlink measurements performed by the mobile terminal on pilot signals respectively sent by the fixed transceivers and formed with defined spreading codes.

- 29. (Original) The radio network controller as claimed in claim 28, wherein the communication means include means for recovering said downlink measurements in report messages of a radio resource control protocol, relayed transparently by the fixed transceivers.
- 30. (Previously Presented) The radio network controller as claimed in claim 25, wherein said report message processing means include means for determining an active set of fixed transceivers with respect to the mobile terminal and means for activating a respective radio link between the mobile terminal and each fixed transceiver of the active set.
- 31. (Original) The radio network controller as claimed in claim 30, wherein the means for determining the active set operate according to parameters including the variability data indicated in report messages for a number of fixed transceivers and signal loss values on the respective channels between the mobile terminal and said fixed transceivers.
- (Previously Presented) The radio network controller as claimed claim 25, including means for determining an active set of fixed transceivers with respect to the mobile

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terminal and means for activating a respective radio link between the mobile terminal and each fixed transceiver of the active set, and wherein said processing means include means of controlling the setting of the transmit power for each fixed transceiver of the active set with respect to the mobile terminal.

- 33. (Original) The radio network controller as claimed in claim 32, wherein the transmit power setting control means operate according to parameters including the variability data indicated in report messages for a number of fixed transceivers and signal loss values on the respective channels between the mobile terminal and said fixed transceivers.
- 34. (Previously Presented) The radio network controller as claimed in claim 25, wherein said processing means include means of determining an initial set point for a closed loop locking the transmit power of the mobile terminal, executed between a fixed transceiver and the mobile terminal.
- 35. (Previously Presented) The radio network controller as claimed in claim 25, wherein said means of processing the report messages indicating the data representing the time variability include means of determining a mode of transmission to the radio network controller of report messages indicating at least some of the measured parameters.
- (Original) The radio network controller as claimed in claim 35, wherein the means of determining the transmission mode are organized to give precedence to an event-

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with which the mobile terminal has an active radio link.

triggered transmission mode when said data shows a time variability that is decreasing and/or less than a threshold for the power level received on the channel between the mobile terminal and a fixed transceiver with which the mobile terminal has an active radio link.

37. (Original) The radio network controller as claimed in claim 35, wherein the means of determining the transmission mode are organized to give precedence to a periodic transmission mode when said data shows a time variability that is decreasing and/or greater than a threshold for the power level received on the channel between the mobile terminal and a fixed transceiver

38. (Previously Presented) A spread spectrum mobile radiocommunication terminal, comprising:

a radio interface (30 39) for communicating with a cellular network infrastructure comprising at least one radio network controller and fixed transceivers serving respective cells; means of measuring parameters of respective propagation channels from a number of fixed transceivers; and

means of transmitting to the radio network controller report messages indicating at least some of the measured parameters, including, for at least one fixed transceiver, data representing a time variability of a power level received over the channel between the mobile terminal and said fixed transceiver.

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39. (Previously Presented) The mobile terminal as claimed in claim 38, further

comprising:

means of receiving over the radio interface, from the radio network controller, data

designating an active set of fixed transceivers; and

a diversity receiver having a number of reception fingers for processing signals

respectively received over a number of propagation paths each belonging to a defined

propagation profile for a fixed transceiver of the active set, and means of combining the signals

processed by the reception fingers to determine common information conveyed by said signals.

40. (Previously Presented) The mobile terminal as claimed in claim 38, wherein the

variability data of a power level include an estimated variance of a time distribution of said

power level.

41. (Previously Presented) The mobile terminal as claimed in claim 38, wherein the

measurement means are organized to measure the variability data of the power level over a first

period and to average it over a second period, longer than the first period, for transmission to the

radio network controller in a report message.

42. (Previously Presented) The mobile terminal as claimed in claim 38, wherein the

measurement means are organized to estimate the variability data over a period adjustable by a

configuration command originating from the radio network controller.

43. (Previously Presented) The mobile terminal as claimed in claim 38, wherein the report messages come under a radio resource control protocol having an instance in the mobile terminal and an instance in the radio network controller and transparent for the fixed transceivers.

- 44. (Previously Presented) A base station for a spread spectrum cellular network infrastructure, comprising at least one radio transceiver serving a respective cell, and means of communication with at least one radio network controller of the cellular network infrastructure, wherein each radio transceiver includes means of measuring parameters of a propagation channel from a mobile terminal in communication with the cellular network infrastructure, and wherein the means of communication with the radio network controller include means of transmitting report messages indicating at least some of the measured parameters, including data representing a time variability of a power level received on said propagation channel from the mobile terminal.
- 45. (Original) The base station as claimed in claim 44, wherein the means of communication with the radio network controller include means of receiving an activation command for a radio link with said mobile terminal, transmitted by the radio network controller after processing the report messages.
- 46 (Previously Presented) The base station as claimed in claim 44, wherein the means of communication with the radio network controller include means of receiving a control for

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setting the transmit power of at least one radio transceiver, transmitted by the radio network controller after processing the report messages.

47. (New) The method as claimed in claim 1, wherein said data representing a time

variability of said power level indicates an amount of variation of said power level.

48. (New) The radio network controller as claimed in claim 25, wherein said data

representing a time variability of said power level indicates an amount of variation of said power

level.

49. (New) The mobile terminal as claimed in claim 38, wherein said data representing a

time variability of said power level indicates an amount of variation of said power level.

50. (New) The base station as claimed in claim 44, wherein said data representing a time

variability of said power level indicates an amount of variation of said power level.